

ABSTRACT OF THE DISCLOSURE

A method for teaching isolated concepts of a programming language. An interpreter interface with a code entry window adapted for receiving input is provided and a single code entry is received from the code entry window. The code entry is process and a visual cue is displayed. The code entry is compared to syntax rules for the programming language to identify syntax errors or the validity of the code entry syntax. When a syntax error is identified, an error code based on the syntax error is retrieved in the visual cue. The interpreter interface displays the error code, the received code entry, and previously processed code entries. When no errors are identified, the code entry is executed and a semantic view of the effects of executing the code entry is displayed showing the type, the name, and the value of variables declared and assigned in the code entry.